[4984]-101

P.G.D.C.M. (Semester - I)

101 : ELEMENTS OF INFORMATION TECHNOLOGY AND OFFICE AUTOMATION

(Windows Operating System and MS. Office)

(2013 Pattern)

Time : 3 Hours] [*Max. Marks : 50*

Instructions to the candidates:-

1) *All questions are compulsory.*

2) *Figures to the right indicate full marks.*

Q1) Answer the following : [10]

a) $(8294)_{10} = (?)_{16}$

b) $(864)_8 = (?)_{10}$

Q2) Answer the following (any one) : [10]

a) Differentiate between compiler and Interpreter.

b) Define computer? Explain Block diagram of computer.

Q3) Answer the following (any one) : [10]

a) Define Binary System? Explain 1's and 2's complement with example.

b) Explain Batch and Real time processing with example.

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Q4) Answer the following (any one) :   **[10]**

   a)   Explain statistical and data functions in Microsoft Excel.

   b)   Explain AND, NOT Logical gates.

Q5) Write short notes (any two) :   **[5 + 5 = 10]**

   a)   Bar Code Scanner

   b)   Computer Virus

   c)   MS-Outlook

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[4984]-102

P.G.D.C.M. (Semester - I)

102 : PROGRAMMING USING VISUAL BASIC

(2012 Pattern)

Time : 3 Hours]   *[Max. Marks : 70*

Instructions to the candidates:-

    1)   *Figures to the right indicate full marks.*

    2)   *All questions are compulsory.*

Q1) Give output for following section of code and explain (Any Five)   **[20]**

    a)   dim chk

        chk = If ("BMW"> "HONDA", "Bigger", "Smaller")

        print chk

    b)   Print chr(68)

    c)   dim str As String

        str = "I am doing PGDCM"

        str = StrConv(str, 2)

        print str

    d)   Print Asc (Chr(74))

    e)   dim i, k

        k = 65

        For i = 1 to 5

            Print Space(i) + Chr(k)

        Next i

    f)   Dim i

        i = –5.3

        Print CBool(Abs(i))

Q2) Explain the following (Any Five) **[10]**

    a)   MaxLength property of TextBox

    b)   Tab stop

    c)   List property of listbox

    d)   Default of command button

    e)   Caption property of Label

    f)   Interval property of timer

Q3) Write section code for any 4 of the following. **[20]**

    a)   Take a textbox for accepting number and check that number is prime or not on button click.

    b)   Take a textbox for accepting two strings and check both strings are equal or not on button click.

    c)   Accept two numbers using textbox and print multiplication of the numbers when Display button is pressed.

    d)   Write code to change the background colour of the form after every 5 secs.

    e)   Write a user defined function to reverse the given string.

Q4) Write short notes on (Any Four) **[20]**

    a)   Datatypes in Visual Basic

    b)   Scope of Variable

    c)   Menu Editor

    d)   Input and Message Box

    e)   String functions (any three)

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[4984]-103
P.G. D.C.M. (Semester - I)
INTRODUCTION TO C AND C++ LANGUAGE
(2013 Pattern)

Time : 3 Hours]   *[Maximum Marks : 50*
Instructions to the candidates:
  1) *Question Nos. 1 is compulsory.*
  2) *Attempt any TWO from Q. Nos. 2 to 4.*

Q1) Write short notes on any FOUR:
  a) Data types in C   **[5]**
  b) Method overloading   **[5]**
  c) Multiple inheritance   **[5]**
  d) Branching statement if ... else   **[5]**
  e) Features of C++   **[5]**

Q2) Write a program in C to generate the following pattern: **[15]**
  9 7 5 3 1
  7 5 3 1
  5 3 1
  3 1
  1

Q3) Write a program in C to create a file having following fields:
  int mobile_no, char product_nm, float price.   **[15]**

Q4) Write a program in C++ to accept person's gender code and age. If gender is
  Female and age is above 18 years or gender is Male and age is above 21
  years, the program should display "Eligible to get Marry" else "Not eligible to
  get marry".   **[15]**

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[4984]-201

P.G.D.C.M. (Semester - II)

201 : WEB TECHNOLOGY INCLUDING E-COMMERCE, HTML & BASIC JAVA

(2013 Pattern)

Time : 3 Hours]   *[Max. Marks : 50*

Instructions to the candidates:-

1) *Q. 1 is compulsory.*

2) *All questions carry equal marks.*

Q1) What is E-commerce? How E-commerce works? Enlist benefits of E-commerce.   **[10]**

Q2) Attempt the following (any one) :   **[10]**

 a) Explain any four AWT components.

 b) Explain Applet Life Cycle in detail.

Q3) Attempt the following (any one) :   **[10]**

 a) Define the class Rectangle & wirte java code to display Area of Rectangle. Assume suitable data.

 b) What is Encapsulation & polymorphism. Explain it in detail.

Q4) Attempt the following (any one) :   **[10]**

   a)   What is Javascript? Explain advantages of javascript.

   b)   Explain types of Layouts in java.

Q5) Write short notes on (any two) :   **[2 × 5 = 10]**

   a)   Inheritance in java

   b)   Wrapper Class

   c)   Web Hosting

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[4984]-202
P.G.D.C.M. (Semester - II)
202 : SOFTWARE ENGINEERING
(2013 Pattern)

Time : 3 Hours]   *[Max. Marks : 50*

Instructions to the candidates:-

   Figures to the right indicates full marks.

Q1) Attempt the following (<u>any one</u>) :   **[10]**

   a)   Om Tech. Pvt. Ltd has issued an advertisement calling applications for various posts. After receiving applications scrutiny will be made & interview letters will be send. Deserving candidates will be selected through interviews & will be appointed as regular employees. Draw :

       i)   First level DFD

       ii)   ER Diagram

   b)   Explain various steps of System Development Life Cycle.

Q2) Attempt the following (<u>any one</u>) :   **[10]**

   a)   Design employee Payslip Format for G-System Ltd.

   b)   Explain the role of System Analyst in detail.

Q3) Attempt the following (<u>any one</u>) :   **[10]**

   a)   Explain Prototyping Model with suitable diagram.

   b)   Design a data entry screen for admission form for PGDCM college.

Q4) Attempt the following (<u>any one</u>) :   **[10]**

    a)   Explain Decision tree Decision table in detail.

    b)   Explain Normalization with its types in brief.

Q5) Write short notes on (<u>any two</u>) :   **[10]**

    a)   Spiral Model

    b)   Pseudo Code

    c)   DFD components

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[4984]-203
P.G.D.C.M. (Semester - II)
203 : DATABASE MANAGEMENT SYSTEM & ORACLE
(2013 Pattern)

Time : 3 Hours]   *[Max. Marks : 50*

Instructions to the candidates:-

    1)   *Q. 1 is compulsory.*

    2)   *Attempt any three from the remaining.*

    3)   *Figures to the right indicate full marks.*

Q1) Write a short note on (any four) :   **[4 × 5 = 20]**

    a)   Data Functions in Oracle

    b)   Anamolies

    c)   HDB & NDB

    d)   Key Constraints

    e)   Set Operators

Q2) What is DBMS? Describe architecture of DBMS.   **[10]**

Q3) Explain any ten CODD's Rule.   **[10]**

Q4) What are the datatypes in MS-Access.   **[10]**

Q5) Explain Normalization with example.   **[10]**

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